Z-LINE

Z109REG

Universal Converter

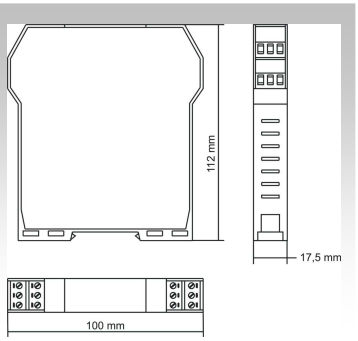
Z-LINE

Standard converters

- INPUT: Voltage, Current, TC (J,K,R,S,T,B,E,N), PT100, Potentiometer
- OUTPUT:current 0..20, 4 . 20 mA
  voltage 0..5, 1..5, 0..10, 2..10 Vdc (scale inversion also)
- DIP-SWITCHES for selecting: input type, zero and span, output mode (zero elevation, scale inversion), output span
- Galvanic isolation @ 3-way
- Screw-fit terminals removable
- Din rail mounting
- Power supply: 19..40 Vdc, 19..28 Vac

TECHNICAL DATA

Z109REG – Universal Converter



CE

ORDER CODE

Cod. Z109REG	
Cod. Z109REG-ER	With square root extraction

Accessories

SENECA-TOOL	Configuration Kit (software + cable)
Z-SETUP	Configuration software (downloading from www.seneca.it)
PM001600	Configuration cable

GENERAL FEATURES

Power supply	19÷40Vdc, 19÷28 Vac
Channels	N.1
Status indicators	- Power - Setting error - Off scale
Galvanic Isolation	Power supply // input // output at 1500 Vac, digital
Hot swapping	Yes
Power consumption	2,5 W
Sampling frequency	3 samples / second
Protections	Surges: 400W/ms. Loop supply short-circuit protected
Protection for inputs	Except current: 60V continuous; current 200mA continuous.
Humidity	30..90% a +40°C (not condensing)

Design	Terminal housing for mounting on 35 mm DIN 46277
Data memory	EEPROM for all configuration data; storage time: 10 years.
DIP Switch	- Inputs signal setup - Output signal setup
Enclosure	"V0" self-extinguishing glass filled nylon case
Dimensions	17,5 x 100 x 112 mm (w x h x d)
Weight	140 g
Operating temperature	0..50 °C
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm²
Standards	EN50081-2 EN50082-2 EN61010-1
Approvals	CE

INPUT

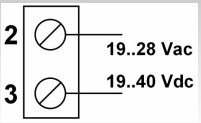
Current: bipolar up to 20mAcc, input impedance 2.5 ohm, resolution 2uA
Voltage: bipolar up to 10Vcc in 4 scales: 200mV, 2V, 5V, 10V, input impedance 1 Mohm, resolution 0.01%
PT100: 3-wire measurement, range -200..+600 °C, energising current 0.56mA, resolution 0.035 ohm, automatic detection of cable interruption or RTD
Thermocouple: type J,K,R,S,T,B,E,N; resolution 5uV, automatic detection of TC interruption.
Potentiometer: full scale min 500 ohm, max 15 Kohm, resolution 0.01%.

OUTPUT

Current: 0..20 mA, 4..20 mA, 20..0 mA e 20..4 mA
Higher load resistance: 600 Ohm
Voltage: 0..5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc
Lower load resistance: 2,5 KOhm

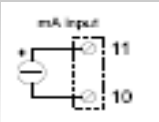
DIMENSIONS AND INSTALLATION

Power supply

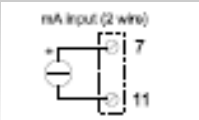


Input

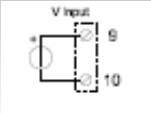
Current – passive input



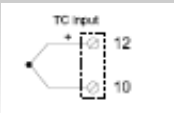
Current – acvtive input



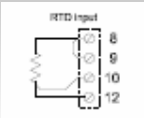
Voltage



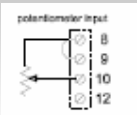
Thermocouple



RTD

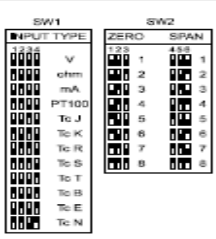


Potentiometer



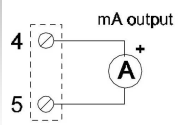
Setting

Dip switches configuration (input signal)

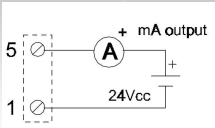


Output

Current – active output



Current – passive output



Voltage